Index of Claims

| Application/Control No | ation/Co | ntrol No |
|------------------------|----------|----------|
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10/807,113

Examiner

Robert Shiao

Applicant(s)/Patent under Reexamination

ZHANG ET AL.

**Art Unit** 

1626

Rejected **Allowed** 

(Through numeral) Cancelled

N Restricted

Non-Elected Interference

**Appeal** Α 0 Objected

| Cla                    | aim          | L        |              |   |              | _[       | Date   | е        |              |  |          |     | Cla   | aim      |          |          |          | [        | Dat      | е              |          |  |                 |
|------------------------|--------------|----------|--------------|---|--------------|----------|--|----------|--------------|--|----------|-----|-------|----------|----------|----------|----------|----------|----------|----------------|----------|--|-----------------|
| Final                  | Original     | 3/1/6    | on fall      |   |              |          |  |          |              |  |          |     | Final | Original |          |          |          |          |          |                |          |  |                 |
|                        | 1            | f        | 1            | +   | 7            | _        | -  | $\vdash$ | ┢            | 1  | $\vdash$ | 1   |       | 51       | Н        | _        |          | -        | $\vdash$ | $\vdash$       |          | <del>                                     </del> | $\vdash$        |
|                        | 4            | T        | T            | 十   | ┪            |          | <del>                                     </del> | Ι        | <b>†</b>     | 1  | Н        | 1 1 |       | 52       | Н        | _        | _        | $\vdash$ | $\vdash$ | $\vdash$       |          | $\vdash$   | $\vdash$        |
|                        | B            | ┌        | Ť            | 1   |              |          |  |          |              |  | Г        | 1   |       | 53       | П        | $\neg$   |          |          |          |                | T        | $\vdash$   | $\vdash$        |
|                        | 4            | Г        | T            | T   | ╗            |          | $\vdash$   |          | Г            |  | T        |     |       | 54       | П        |          |          | $\vdash$ | 1        |                |          | Т  | П               |
|                        | 5/           | Г        | T            | T   |              |          |  |          | T            | ļ —  | Т        |     |       | 55       | П        | T        |          | $\vdash$ |          |                |          | ┢  | П               |
|                        | 8            |          | T            | T   | ヿ            |          |  |          |              |  | Г        | 1 1 |       | 56       | П        | $\neg$   |          |          | Т        |                |          | Г  | П               |
|                        | 7            | Г        | $\top$       | $\top$  | $\exists$    |          |  |          | Г            |  |          | 1 1 |       | 57       | П        |          |          | Т        |          | _              |          |  |                 |
|                        | 8,           | Г        | T            | T   | コ            |          |  |          | Г            |  |          | 1 1 |       | 58       | П        |          |          |          |          |                |          | Г  | $\Box$          |
|                        | \$           | Г        | Т            | T   |              |          |  |          |              | 1  | П        |     |       | 59       |          |          |          |          |          |                |          |  |                 |
|                        | 10           | Г        | T            | Т   |              |          |  |          | Г            | Ī  |          |     |       | 60       |          |          |          |          |          | Г              |          | Г  | П               |
|                        | 1/1          |          | Ţ            |   |              |          |  |          |              |  |          |     |       | 61       | П        |          |          |          | Г        |                |          |  |                 |
|                        | 12           |          |              |   |              |          |  |          |              |  |          | ] [ |       | 62       | П        | П        |          |          |          |                |          |  |                 |
|                        | 13           | Ĺ        | Γ            | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $oxed{oxed}$ |          |  |          |              |  |          | ] [ |       | 63       |          |          |          |          |          |                |          |  |                 |
|                        | 14)          |          | L            |   |              |          |  |          |              |  |          | ] [ |       | 64       |          |          |          |          |          |                |          |  |                 |
|                        | 15           | L        | $\perp$      |   |              |          |  |          |              |  |          |     |       | 65       |          |          |          |          |          |                |          |  |                 |
|                        | 16           |          | ┸            | _   | $\perp$      |          |  | L        | L            |  |          |     |       | 66       |          |          |          |          |          |                |          |  |                 |
|                        | 17           | L        | $\perp$      | $\perp$   | _            |          |  | <u></u>  | L            |  |          |     |       | 67       | Ц        |          |          | L.       |          |                |          |  |                 |
|                        | 18           | L        | ┸            | 1   |              |          |  |          |              |  | L        |     | _     | 68       |          |          |          |          |          |                |          |  |                 |
|                        | 19           | L        | L            | 1   |              |          |  |          | L            | L  | <u> </u> |     |       | 69       |          |          |          |          |          |                |          |  | Ш               |
|                        | <b>(4</b> 0) | K        | L            |   | _            |          |  |          |              | <u> </u>   | L        |     |       | 70       |          | _        |          |          |          |                |          |  | Ш               |
| L                      | 21           | Ц        | ┸            | $\perp$   |              |          |  |          |              | 乚  | _        |     |       | 71       |          |          |          |          |          |                |          |  |                 |
|                        | 22           | Ц        | ┸            | $\downarrow$  | _            | _        |  |          |              | <u> </u>   |          |     |       | 72       |          |          |          |          |          |                |          |  |                 |
|                        | 23           | Ц        | Ļ            | 4   | $\dashv$     |          |  | _        | _            | ╙  |          |     |       | 73       |          |          |          |          |          |                | L        |  | Ш               |
|                        | 24           | Ц        | 1            | 4   | 4            |          |  |          |              | <u> </u>   | <u> </u> |     |       | 74       |          | _        | _        |          |          |                |          | $oxed{oxed}$                                     |                 |
| <u></u>                | 25           | Ц        | ╀            | +   | _            |          |  |          | <u>_</u>     | L  | <u> </u> |     |       | 75       |          | _        |          |          | _        |                |          | Ш  |                 |
| <u> </u>               | 26           | Ц        | 1            | +   | 4            |          |  |          | _            | ╙  | <u> </u> |     |       | 76       | _        | _        | _        |          |          |                |          |  | Ш               |
| $\vdash$               | 27           | Н        | 4            | +   | 4            |          |  | _        | _            | _  | <u> </u> |     |       | 77       |          | _        | 4        |          | _        |                | L        | Ш  | Ш               |
|                        | 28           | Н        | +            | +   | +            | _        |  | _        |              | ▙  | <u> </u> |     |       | 78       |          | _        | 4        |          |          |                | _        |  | $\sqcup$        |
|                        | 29           | Н        | +            | +   | +            | _        |  | _        | <del> </del> | <u> </u>   |          |     |       | 79       | $\vdash$ | $\dashv$ | -        |          |          |                | _        | $\vdash$   | Ш               |
|                        | 30<br>31     | Н        | ╀            | +   | -            | -        |  |          | ├-           |  | <u> </u> |     |       | 80       |          | -        | $\dashv$ |          |          |                | _        | Ш  | $\vdash$        |
|                        | 32           | Н        | ╀            | +   | +            | $\dashv$ |  | _        | ⊢            |  | _        |     |       | 81       | $\dashv$ |          | -        |          |          |                | _        | <b>-</b>   | Н               |
| $\vdash$               | 33           | H        | ╀            | +   | $\dashv$     |          |  | _        | -            |  | ┝        |     |       | 82<br>83 | $\dashv$ |          | -        | _        |          |                | -        | Н  | Н               |
| $\vdash$               | 34           | H        | ╁            | +   | +            | -        | _  | _        | $\vdash$     | -  | $\vdash$ |     |       | 84       | $\dashv$ | $\dashv$ | $\dashv$ |          |          | $\vdash\vdash$ | $\vdash$ | Н  | $\vdash\vdash$  |
| $\vdash$               | 35           | H        | +            | +   | +            | -        |  |          | $\vdash$     | $\vdash$   | $\vdash$ | }   |       | 85       |          | $\dashv$ | -        |          | H        |                | $\vdash$ | $\vdash$   | Н               |
| $\vdash$               | 36           | ╫        | ╁            | +   | +            |          | _  | -        | $\vdash$     | <del>  -  </del>                                 | —        |     |       | 86       | $\dashv$ | $\dashv$ | $\dashv$ |          |          |                | -        | Н  | $\vdash\vdash$  |
| $\vdash \vdash \vdash$ | 37           | +        | ╁            | +   | $\dashv$     | -        | _  |          | $\vdash$     | -  | <u> </u> |     |       | 87       | $\dashv$ | $\dashv$ | $\dashv$ | $\vdash$ |          | $\vdash$       |          | Н  | $\vdash \vdash$ |
| H                      | 38           | +        | +            | +   | $\dashv$     | $\dashv$ | -  |          | Ι            | $\vdash$   | -        |     |       | 88       | +        | -        | $\dashv$ |          | -        | $\vdash$       | $\vdash$ | $\vdash$   | $\vdash\vdash$  |
| $\vdash$               | 39           | 1        | 十            | +   | $\dashv$     | $\dashv$ |  | -        | $\vdash$     | -  |          |     |       | 89       | $\dashv$ | +        | $\dashv$ |          |          | $\vdash$       | -        | $\vdash$   | $\vdash \vdash$ |
| H                      | 40           | ۲        | $^{+}$       | +   | +            | $\dashv$ | -  |          | $\vdash$     |  | H        |     |       | 90       | $\dashv$ | -+       | -        | _        | -        |                | -        | $\vdash$   | $\vdash$        |
| $\vdash$               | 41           | $\vdash$ | $^{\dagger}$ | +   | +            | -        |  | -        | $\vdash$     |  | -        |     |       | 91       | $\dashv$ | -        | $\dashv$ | _        | -        | H              | -        |  | Н               |
| $\vdash$               | 42           |          | T            | +   | $\dagger$    | $\dashv$ |  |          | $\vdash$     |  |          |     |       | 92       | +        | $\dashv$ | $\dashv$ |          |          | $\vdash$       | $\vdash$ | $\Box$   | $\vdash$        |
| $\vdash$               | 43           | _        | t            | $\dagger$   | $\dagger$    | $\neg$   |  | -        |              |  | $\vdash$ |     |       | 93       | $\dashv$ | +        | -        | -        |          | $\vdash$       |          | $\neg$   | $\vdash$        |
| $\vdash$               | 44           |          | ✝            | $\dagger$   | $\dashv$     |          |  |          |              |  | $\vdash$ |     |       | 94       | $\dashv$ | +        | $\dashv$ |          |          | $\vdash$       | H        | $\Box$   | $\vdash$        |
|                        | 45           |          | T            | †   | 寸            | $\dashv$ | -  |          |              |  | Т        | }   |       | 95       | $\dashv$ | +        | ᅥ        | $\dashv$ |          | $\neg$         |          | $\Box$   | $\sqcap$        |
|                        | 46           | _        | T            | $\dagger$   | $\top$       |          |  |          |              | <del>                                     </del> |          |     |       | 96       | _        | +        | $\dashv$ | $\neg$   |          | =              |          | -1   | $\sqcap$        |
| $\Box$                 | 47           |          | T            | 十   | $\dagger$    | $\neg$   | $\neg$   |          | _            | $\vdash$   |          |     |       | 97       | $\dashv$ | +        | $\dashv$ | $\neg$   |          | _              | $\vdash$ | $\vdash$   | $\vdash$        |
|                        | 48           |          | T            | $\dagger$   | $\top$       | $\dashv$ |  | _        | т            | $\vdash$   |          |     |       | 98       | $\dashv$ | $\dashv$ | ᅥ        | -        | _        | -              | $\neg$   | $\dashv$   | $\sqcap$        |
|                        | 49           | _        | T            | T   | $\dashv$     | _        |  |          | т            |  | П        |     |       | 99       | _        | _        | ┪        |          |          |                |          | $\vdash$   | 一               |
| $\Box$                 | 50           | _        | ✝            | +   | $\top$       |          | $\dashv$   |          |              |  |          |     |       | 100      | -        | +        | 7        | $\dashv$ | $\dashv$ |                | $\vdash$ | $\neg$   | $\sqcap$        |
|                        |              | _        | _            |   |              | _        |  |          |              |  |          | L   | 1     |          |          |          |          |          |          |                |          |  |                 |

| Cla         | aim      | Date     |  |              |              |          |  |              |                |                   |  |  |
|-------------|----------|----------|--|--------------|--------------|----------|--|--------------|----------------|-------------------|--|--|
| Final       | Original |          |  |              |              |          |  |              |                |                   |  |  |
|             | 51       | -        | H  | ├            | -            | ├        | $\vdash$   | ┝            | -              | ┝                 |  |  |
| <b>—</b>    | 52       | ┢╌       | -  | $\vdash$     | ┢            | ┝        | ┥  | ┞            | <del>  -</del> | ╁                 |  |  |
| <u> </u>    | 53       | H        | $\vdash$   | H            | ┢╌           | ╁        | $\vdash$   | ╁            | ╁              | ┢                 |  |  |
|             | 54       |          | <del>                                     </del> | <del> </del> | ┢            | -        | ┢┈   | <del> </del> | ┢              | t                 |  |  |
|             | 55       | <u> </u> | T  | T            | t            | <u> </u> | <u> </u>   | <u> </u>     | 1              | 一                 |  |  |
|             | 56       |          | $\vdash$   | T            | $\vdash$     |          | _  |              |                |                   |  |  |
|             | 57       | Т        |  | $\vdash$     | $\vdash$     |          | <u> </u>   |              | $\vdash$       | 1                 |  |  |
|             | 58       | Г        | 1  |              |              |          | <del>                                     </del> |              | Г              | 1                 |  |  |
|             | 59       |          |  |              |              |          |  |              |                | Π                 |  |  |
|             | 60       |          |  |              |              |          |  |              |                |                   |  |  |
|             | 61       |          |  |              |              |          |  |              |                | [ "               |  |  |
|             | 62       |          |  |              | 乚            |          |  |              |                | L                 |  |  |
|             | 63       | L        |  | L            |              |          |  |              |                | Ĺ                 |  |  |
|             | 64       | _        | _  | $\vdash$     | oxdot        | L        |  | L            |                | L                 |  |  |
|             | 65       | <u> </u> | <u> </u>   | <u> </u>     | _            | _        | L_   | <u>_</u>     | <u> </u>       | $\vdash$          |  |  |
|             | 66       | _        | <u> </u>   | ļ            | <u> _</u>    | _        |  | ᆫ            |                | <u> </u>          |  |  |
| <u> </u>    | 67       | <u> </u> | ▙  | <b>├</b>     | <u>Ļ</u> .   | <u> </u> |  | <u> </u>     | L-             | <u> </u>          |  |  |
|             | 68       | _        | _  | ⊢            | <u> </u>     | <u> </u> | ├_   | <u> </u>     |                |                   |  |  |
|             | 69       | L        | _  | <u> </u>     | _            | <u> </u> | ┞  | ⊢            | ļ              | _                 |  |  |
| -           | 70<br>71 | -        | ┡  | ⊢            |              | <u> </u> | <u> </u>   | ⊢            | L              |                   |  |  |
|             | 72       |          | -  | ⊢            | <del> </del> | ├-       | <del> </del>                                     | -            | _              | -                 |  |  |
|             | 72<br>73 | -        |  | Ь            | -            | $\vdash$ | -  | ⊢            | ┝              | -                 |  |  |
| -           | 74       |          | $\vdash$   |              | -            |          | ⊢  | ⊢            | ⊢              | ⊢                 |  |  |
| -           | 75       | -        | ┢  | -            | -            | ┢        | -  | $\vdash$     | ⊢              | -                 |  |  |
| $\vdash$    | 76       | -        |  | ┪            | ┝            | ┝        | -  | $\vdash$     | ⊢              | -                 |  |  |
|             | 77       | -        | 一  | $\vdash$     | -            | -        | $\vdash$   | -            | ┢              | H                 |  |  |
|             | 78       | $\vdash$ | $\vdash$   | T            |              | _        | $\vdash$   | _            | ┢              | H                 |  |  |
|             | 79       | l        |  | $\vdash$     |              |          |  | _            | $\vdash$       | Н                 |  |  |
|             | 80       |          | $\overline{}$                                    | $\vdash$     |              |          | $\vdash$   |              |                |                   |  |  |
|             | 81       | Г        |  | _            | $\vdash$     |          |  | Г            | $\vdash$       | $\vdash$          |  |  |
|             | 82       |          |  |              |              |          |  |              |                | Γ                 |  |  |
|             | 83       |          |  |              |              | L        |  |              |                |                   |  |  |
|             | 84       |          |  |              |              |          |  |              |                |                   |  |  |
|             | 85       |          |  |              |              |          |  |              |                |                   |  |  |
|             | 86       |          | 匚  | Ĺ            | 匚            | 匚        | $\Box$   |              |                |                   |  |  |
|             | 87       | _        | Ľ  | L            | $\Box$       | L        |  | Ĺ            | Ĺ              |                   |  |  |
| $\vdash$    | 88       | L        | <u> </u>   | <u> </u>     | <u> </u>     | _        | <u> </u>   | L            | L              | L                 |  |  |
| <u></u>     | 89       | <u> </u> | <u> </u>   | <u> </u>     | _            | <u> </u> | _  | _            | <u> </u>       | $ldsymbol{f eta}$ |  |  |
| $\vdash$    | 90       | _        |  | <u> </u>     | -            | <u> </u> | <u> </u>   | <u> </u>     |                | _                 |  |  |
|             | 91       | _        | <u> </u>   | $\vdash$     | $\vdash$     | <u> </u> | $\vdash$   | <u> </u>     | _              | ⊢                 |  |  |
|             | 92       | -        | <u> </u>   | -            | <u> </u>     | <u> </u> | <u> </u>   | _            |                |                   |  |  |
| $\vdash$    | 93<br>94 | <u> </u> | -  | -            |              | $\vdash$ | $\vdash$   | <u> </u>     | <u> </u>       | $\vdash$          |  |  |
| $\vdash$    | 95       | <u> </u> | <u> </u>   | ⊢            | ⊢            | <u> </u> |  | -            | <u> </u>       | $\vdash$          |  |  |
| $\vdash$    | 96       | _        | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$ | <u> </u>   |              |                | -                 |  |  |
| $\vdash$    | 97       | _        | $\vdash$   | -            | $\vdash$     | $\vdash$ | -  | -            |                | -                 |  |  |
| <del></del> | 98       |          | -  | $\vdash$     | $\vdash$     | $\vdash$ | <del> </del>                                     | <u> </u>     | $\vdash$       | $\vdash$          |  |  |
| $\vdash$    | 99       | -        | -  |              |              | $\vdash$ |  | -            | -              | $\vdash$          |  |  |
| $\vdash$    | 100      |          | $\vdash$   | -            | $\vdash$     | $\vdash$ | -  | -            | <del> </del>   | $\vdash$          |  |  |

| Claim    |  | Date     |          |          |              |              |          |              |          |          |  |  |
|----------|--|----------|----------|----------|--------------|--------------|----------|--------------|----------|----------|--|--|
| Final    | Original   |          |          |          |              |              |          |              |          |          |  |  |
|          | 101<br>102<br>103<br>104<br>105  |          |          |          |              |              |          |              |          |          |  |  |
|          | 102  |          |          |          |              |              |          |              |          |          |  |  |
|          | 103  | _        | _        | <u> </u> | 匚            | <u> </u>     |          |              | _        | Ш        |  |  |
|          | 104  | <u> </u> | <u> </u> | ļ        | <u> </u>     | ┢            | ⊢        | <u> </u>     | <u> </u> | Ш        |  |  |
|          | 105  |          | _        |          | -            | ⊢            | L        | $\vdash$     |          | Н        |  |  |
|          | 106  |          |          |          | -            | ├            | ⊢        |              | -        | -        |  |  |
|          | 107<br>108   |          |          | ├        |              | $\vdash$     | $\vdash$ | ┢            | ┢        |          |  |  |
|          | 109  | -        |          | H        | $\vdash$     | $\vdash$     |          | $\vdash$     | H        |          |  |  |
|          | 110  |          |          | Г        | 1            | Г            | Г        | Г            | ऻ        | П        |  |  |
|          | 111  |          |          |          |              |              |          |              |          |          |  |  |
|          | 112  |          | <u> </u> |          |              | L            |          |              |          | Ш        |  |  |
|          | 113  |          | _        | _        | L            | _            | _        | _            |          | Ш        |  |  |
|          | 113<br>114<br>115  |          | $\vdash$ | <u> </u> | _            | ⊢            | <u> </u> | ├-           | <u> </u> | Ш        |  |  |
|          | 115  |          | H        |          | _            | $\vdash$     | ļ        | -            | $\vdash$ | Н        |  |  |
|          | 117  |          | -        |          |              | $\vdash$     | -        | $\vdash$     | $\vdash$ | $\dashv$ |  |  |
|          | 116<br>117<br>118<br>119   |          | -        | $\vdash$ | $\vdash$     | -            | $\vdash$ | $\vdash$     | H        | $\vdash$ |  |  |
|          | 119  |          | $\vdash$ |          |              |              | _        | -            | $\vdash$ |          |  |  |
|          | 120  |          |          |          |              |              |          |              |          |          |  |  |
|          | 121  |          |          |          |              |              |          |              |          |          |  |  |
|          | 122  |          |          |          |              |              |          |              |          |          |  |  |
|          | 123  |          |          |          |              |              |          |              | L        |          |  |  |
|          | 124  |          |          | _        | <u> </u>     | _            | <u> </u> | <u> </u>     |          |          |  |  |
|          | 125  | _        |          |          | _            | <u> </u>     | <u> </u> | _            | Щ        | -        |  |  |
|          | 127  |          |          | _        | <del> </del> |              | ├        | <del> </del> |          | $\dashv$ |  |  |
|          | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133 | -        |          | -        | ┢            | $\vdash$     | $\vdash$ | $\vdash$     |          | $\dashv$ |  |  |
|          | 129  |          |          |          |              | $\vdash$     | $\vdash$ | $\vdash$     |          | $\dashv$ |  |  |
|          | 130  | T        |          |          |              | $\vdash$     |          | -            | -        | $\vdash$ |  |  |
|          | 131  |          |          |          |              |              |          |              |          |          |  |  |
|          | 132  |          |          |          |              |              |          |              |          |          |  |  |
|          | 133  |          |          |          |              |              |          |              |          |          |  |  |
|          | 134  | $\Box$   |          |          |              | _            |          |              |          | Ш        |  |  |
|          | 135<br>136   | _        |          |          | _            | _            | _        | _            |          |          |  |  |
|          | 135  | _        |          |          |              | $\vdash$     |          | _            | _        | _        |  |  |
|          | 138  |          |          |          |              |              | -        |              |          |          |  |  |
|          | 138<br>139   |          |          |          |              |              | _        | $\vdash$     | _        | $\dashv$ |  |  |
|          | 140  | _        |          |          |              |              |          |              |          | $\dashv$ |  |  |
|          | 141  |          |          | _        |              | П            |          |              |          | $\Box$   |  |  |
|          | 142  |          |          |          |              |              |          |              |          |          |  |  |
|          | 143  |          |          |          |              |              |          |              |          |          |  |  |
|          | 144  | _        |          |          |              | $oxed{\Box}$ |          | $oxed{\Box}$ | Ш        | $\Box$   |  |  |
|          | 145  | _        | _        | _        |              | _            | _        | _            | Щ        | $\sqcup$ |  |  |
|          | 146  | _        | $\dashv$ | _        |              |              | _        |              | Щ        | $\sqcup$ |  |  |
|          | 147<br>148   | $\dashv$ | _        |          | _            |              | _        | _            | -        | $\dashv$ |  |  |
| $\dashv$ | 149  | $\dashv$ |          |          |              |              | <u> </u> | -            | Н        | $\vdash$ |  |  |
|          | 150  | $\dashv$ | $\dashv$ | _        | $\vdash$     | $\vdash$     |          | -            | $\vdash$ | $\dashv$ |  |  |
|          | .50  |          |          |          | لـــا        | نــــا       | لـــا    |              | لــــا   |          |  |  |